

Data Taking Statistics Week of 2003 May 02-08

			Normalizable Luminosity (nb ⁻¹)			Hours			Norm. Events (k)		Efficiency	
Day	Date	Del	Util	Rec	Physics	Store	Util	Rec	Rec	Physics	Rec	Phys
Fri	2-May-03	1531.70	1502.22	1357.40	1357.40	18.2	17.8	17.1	2227	2227	0.886	0.886
Sat	3-May-03	1379.71	1320.17	1128.59	1128.59	15.0	14.4	13.7	2243	2147	0.818	0.818
Sun	4-May-03	1877.00	1826.75	1684.70	1684.70	20.7	20.2	19.7	3186	3186	0.898	0.898
Mon	5-May-03	1703.69	1684.86	1555.59	1555.59	21.4	21.1	20.6	2876	2876	0.913	0.913
Tue	6-May-03	905.95	880.60	766.21	766.21	10.6	10.3	9.7	1428	1428	0.846	0.846
Wed	7-May-03	818.33	791.57	673.44	673.44	8.1	7.8	7.2	1075	1075	0.823	0.823
Thu	8-May-03	1569.12	1551.70	1438.51	1438.51	19.2	19.0	18.5	2566	2566	0.917	0.917
		9785.5	9557.9	8604.4	8604.4	113.2	110.6	106.5	15601	15505	0.879	0.879

	Recorded Physics Lumi	Efficiency	Physics Events (million)
This Week	8.6 pb ⁻¹	87.9%	15.5
Last Week	3.6 pb ⁻¹	80.1%	8.1
Best Week	8.6 pb ⁻¹	87.9%	15.5
(2003 May 02-08)			
Prior Best Week	5.8 pb ⁻¹	84.9%	10.7
(2003 March 14-20)			



Delivered Luminosity Losses

Major Sources of Downtime & Deadtime (>0.15 hrs)

2-May-03	10:00	0.05	0.40	MTM Power Supply Trip L1 Crate x14	
3-May-03	0:41	0.17	0.18	Begin Store 2503; Pixel Crate x32; L2 Disable Input	
3-May-03	13:04	0.27	0.37	MTM Power Supply Trip L1 Crate x14	
4-May-03	1:00	0.20	0.05	Operator Error: Download to non-existent FPD AFE	
4-May-03	4:57	0.00	0.20	MDT Major Alarms Auto-pausing Run	
4-May-03	17:46	0.15	0.00	Begin Store 2507; PDT 244; L2 Disable Input	
5-May-03	5:50	0.20	0.00	Hot EM Tower affecting DAQ & Physics	
5-May-03	22:42	0.00	0.20	SMT Crate Controller & Crate x65	
6-May-03	1:40	0.10	0.40	Muon PDT Errors	
7-May-03	16:12	0.20	0.25	Mezzanine Card in VRBC for FPS Crate x53	
7-May-03	21:40	0.03	0.27	SMT HDI B2-5-08	
8-May-03	17:29	0.13	0.07	FPS Readout Crate x53	

Diagnosing PDT (and other Muon) Hardware/Electronic Failures, and subsequently disabling inputs to L1/L2 has gone much faster this week. Nearly two complete stores without FPS Readout Crate x53.

Other Losses

- ~0.5 hr: 40 Run transitions (<1 minute/per)
- ~0.5 hr: 10 Begin or End Store transitions (~3 minutes/per)
- ~3 hrs: Average 5% FEB during physics data taking



Past Week of Stores

- 09:08 9 May 2003 Store 2529 D0 Luminosity = 39.70E30.
- 23:29 8 May 2003 End of Store 2523 store abort due to lightning strike.
- 13:26 8 May 2003 Store 2523 D0 Luminosity = 39.78E30.
- 09:10 8 May 2003 End of Store 2521 terminated by the Tevatron.
- 15:55 7 May 2003 Store 2521 D0 Luminosity = 37.63E30.
- 15:25 6 May 2003 End of Store 2511 store lost due to BQ9 trip.
- 10:26 6 May 2003 Store 2511 D0 Luminosity = 39.50E30.
- 05:44 6 May 2003 End of Store 2509 terminated by the Tevatron.
- 13:20 5 May 2003 Store 2509 D0 Luminosity = \sim 36.25E30.
- 10:46 5 May 2003 End of Store 2507 terminated by the Tevatron.
- 17:46 4 May 2003 Store 2507 D0 Luminosity = 36.00E30.
- 14:26 4 May 2003 End of Store 2505 terminated by the Tevatron.
- 22:44 3 May 2003 Store 2505 D0 Luminosity = 39.00E30.
- 14:23 3 May 2003 End of Store 2503 terminated by the Tevatron.
- 00:30 3 May 2003 Store 2503 D0 Luminosity = 37.70E30.
- 18:13 2 May 2003 End of Store 2502 declared by D0. Beam handed over to Tevatron for end of store studies.
- 00:04 2 May 2003 Store 2502 New Record Run II D0 Luminosity = 40.30E30.
- 9 May 2003 DO Operations Mtg

- Previous Record was
 Store 2328 @39.50E30 at
 08:47 20 March 2003
- Tevatron/CDF Luminosity for Store 2502: 42.35/44.40E30



Best Stores

Best Store

Sorted by Highest Initial D0 Luminosity greater than 3.50E31.

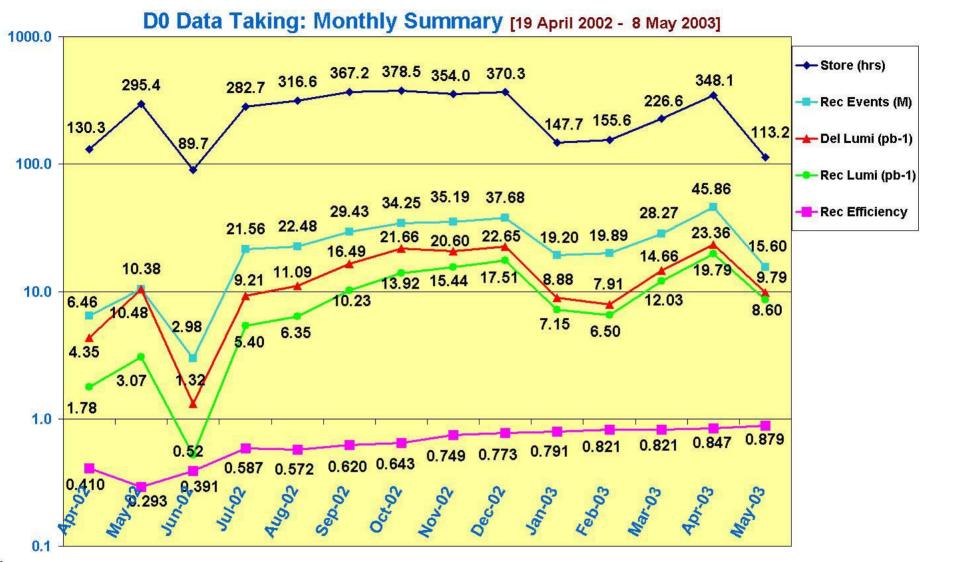
9 of the top 15 from the past week

Initial Lumi (E31)	Store	Start Time	End Time
4.03	2502	2003 May 02 00:04	2003 May 02 18:13
3.98	2523	2003 May 08 13:26	2003 May 08 23:29
3.97	2529	2003 May 09 09:09	
3.95	2511	2003 May 06 10:26	2003 May 06 15:25
3.95	2328	2003 Mar 20 08:47	2003 Mar 21 04:10
3.91	2318	2003 Mar 16 08:10	2003 Mar 16 09:18
3.90	2505	2003 May 03 22:44	2003 May 04 14:26
3. 77	2503	2003 May 03 00:30	2003 May 03 14:23
3.76	2521	2003 May 07 15:55	2003 May 09 09:10
3.67	2447	2003 Apr 21 14:07	2003 Apr 22 08:00
3.63	2509	2003 May 05 13:20	2003 May 06 05:44
3.62	2323	2003 Mar 18 05:03	2003 Mar 18 16:42
3.61	2426	2003 Apr 14 11:55	2003 Apr 14 13:48
3.60	2507	2003 May 04 17:46	2003 May 05 10:46
3.54	1953	2002 Nov 08 22:15	2002 Nov 09 20:32

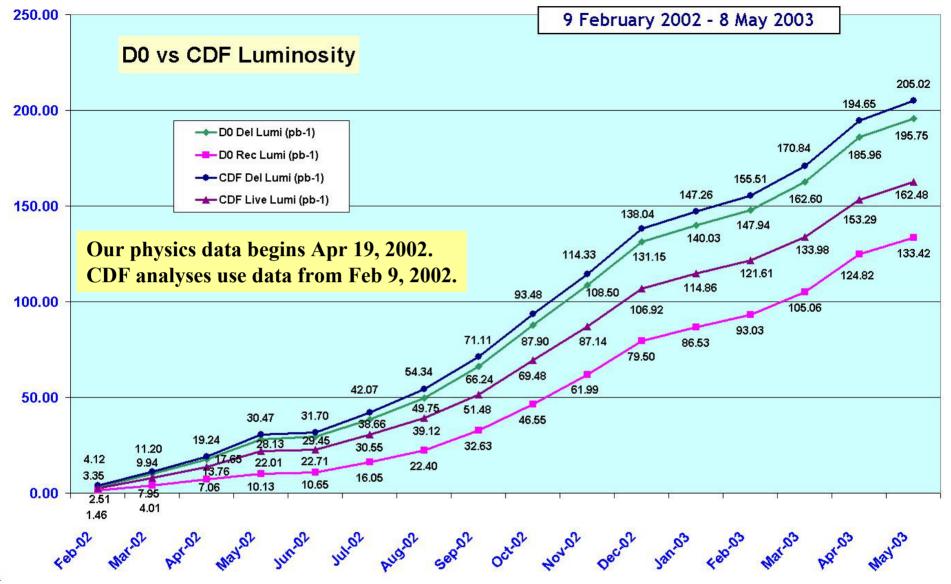


Other News

- FPD Shift Responsibilities are being transferred from the CAL Shifter to the Shift Captain
 - FPD Expert have provided simple instructions, and will spend time over the next few weeks with CAPs for individual training
 - This was done to facilitate the transition to single CAL/MUO Shift
- Continue with global_CMT-11.03 trigger list
 - L1/L2/L3 rates are capped at 1200/500/50 Hz
 - There is a strong effort from TB to move to v12
 - Decision will be made next week if we are prepared to make the change to v12 or stick with 11.03 through mid-June (data cut-off for summer conferences)
- No scheduled beam studies next week
 - Particle Accelerator Conference
 - Was mention of a _possible_ maintenance day next week
 - Would permit 8-12 hours access to collision halls/tunnel



- •In this time period, we have 119 pb-1 & 292 Mevts of Physics
 - excluding "bad" Calorimeter sample from Jun 18-Aug 15 2002
 - but not correcting for Reco "losses" or bad runs (Muon, MET, etc.)



•By June 15 2003 we should have ~140 pb-1 & 350 Mevts of Physics

If an analysis requires silicon, → we already have better statistics than CDF

